

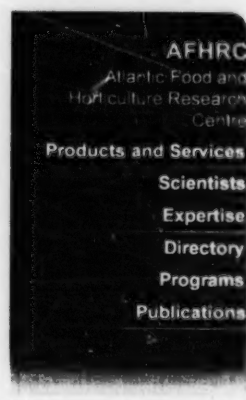


Agriculture and
Agri-Food Canada

Agriculture et
Agroalimentaire Canada

Canada

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Directory of Canadian Horticultural Research Organizations and Professionals

Compiled by R. Prange and D. Dean

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Agriculture and Agri-Food Canada

Research Branch (RPC)

- Pacific Agri-Food Research Centre
- Lethbridge Research Centre
- Saskatoon Research Centre
- Morden Research Centre
- Greenhouse and Processing Crops Research Centre

- Southern Crop Protection and Food Research Centre
- Food Research and Development Centre
- Horticulture Research and Development Centre
- Potato Research Centre
- Atlantic Food and Horticulture Research Centre
- Crops and Livestock Research Centre
- Atlantic Cool Climate Crop Research Centre

Canadian Food Inspection Agency

- Centre for Plant Health

Prairie Farm Rehabilitation Administration

- PFRA Shelterbelt Centre

Universities

University of British Columbia

University of Alberta

University of Saskatchewan

University of Manitoba

University of Guelph, Ontario Agricultural College

- Regional Colleges

Cool Climate Oenology and Viticulture Institute - Brock University

University of Laval

McGill University, Macdonald Campus

University of Montreal

Nova Scotia Agricultural College

Provincial Governments

Alberta Agriculture, Food and Rural Development

- Crop Diversification Centre South
- Crop Diversification Centre North

Ontario Ministry of Agriculture, Food and Rural Affairs

Quebec Department of Agriculture, Fisheries and Food (MAPAQ)

- Les Buissons Centre of Research and Experimentation
- Centre for the Production of Seed Potatoes

New Brunswick Department of Agriculture and Rural Development

Nova Scotia Department of Agriculture and Marketing

Private and Commercial Institutions

Novartis Crop Protection Canada Inc.

Royal Botanical Gardens

The Niagara Parks Commission, Botanical Gardens & School of Horticulture

Institute of Research and Development in Agroenvironment

- Headquarters and Research Centre

■ Sainte-Foy Research Centre

Introduction

This directory summarizes information publicly available as of January 1, 2000. It contains information that will be included in the International Society for Horticultural Science (ISHS) 'Horticulture Research International' which will be available later in 2000 on the Web and in book-form. Every effort has been made to ensure all institutions and individuals in Canada are properly listed in the Directory. However, we realize that there will be an ongoing need for changes as some institutions will change names, individuals will retire or move and new researchers will begin their careers. Please send all requests for changes, additions and/or deletions to Donna Dean (deand@em.agr.ca) who will update this directory as well as forward new information to the ISHS.

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Canadian Climate

Canada, due to its size, has many different climates. In December southern Canada receives 8 hours of daylight while the northern tip receives none. Northern Canada in the winter receives very little solar radiation, therefore temperature differences from North to South are extensive.

The average maximum January temperature at the tip of Ellesmere Island in the north is -28 °C, that of Windsor, Ontario is -0.7 °C. The long summer days in northern Canada produce a much smaller difference, with maximum temperatures in July of 6.8 °C for the north and 27.8 °C for the south. The annual precipitation ranges from 100 mm in the Arctic to over 1500 mm on the windward side of British Columbia's mountains.

Northwest Territories

The Northwest Territories have an average temperature of -10 °C for 6 (or more) months of the year, the northern tundra is permanently frozen approximately a half kilometre deep.

British Columbia

British Columbia's major contrast is between the coast and the interior, but there are also significant variations between valley and upland and between the north and south. The average January mean temperature is 0 °C at most coastal regions with July recording an average mean temperature of 15 °C. The interior of British Columbia has an average daily mean January temperature ranging from -10 °C to -15 °C while the northeastern plains are a cold -20 °C or more. The southern interior in the summer records a July average monthly temperature of more than 20 °C, but farther north on the central interior plateau an average of about 15 °C. The west facing mountains receive more than 250 cm of annual precipitation, whereas the east-coast lowland records about 70 to 100 cm. The western side of the interior mountains accumulate 100 to 200 cm annually, of which a large amount is snowfall. The Okanagan Valley receives a mere 25 cm of annual precipitation. The coast records an average of more than 200 frost-free days annually with central Interior Plateau having only 75 to 100 frost-free days. British Columbia holds the following Canadian climate records: highest yearly average temperature (Vancouver 9.9 °C), longest annual frost free period

(Vancouver 233 days) and least annual average snowfall (Victoria 47 cm). The mild weather provided by the warm ocean current brings rain. An average 6.6 metres of rain falls annually at Henderson Lake.

Prairie Provinces (Alberta, Saskatchewan, Manitoba)

Alberta experiences cold winters and fairly short, cool summers. Precipitation is low with annual readings of 30 cm in the southeast to 40 - 45 cm in the north. Annual hours of sunshine from 1900 in the north and 2300 in the south make Alberta Canada's sunniest province. Alberta records January mean temperatures of -8 °C in the south to -24 °C in the north and July mean temperatures ranging from 20 °C in the south to 16 °C in the north. The climate of Saskatchewan ranges from cold and snowy with brief summers in the north to a moderate climate to semi-arid in the southwest. Temperatures of -50 °C in January and 35 °C in July have been recorded, as have January temperatures of well above freezing and July temperatures well below. Annual frost-free days range from 60 to over 100. Manitoba's winters are very cold with moderately warm summers. Nearly two-thirds of Manitoba's annual precipitation falls during the summer months. Frost-free days range from 100 - 120.

Central Canada (Ontario, Quebec)

In the north, near Hudson Bay, the mean daily temperature ranges from 15 °C in July to -25 °C in January. Southwestern Ontario records mean daily temperatures of -6 °C in January and 22 °C in July. The meeting of cold, dry air from the north and west with the warm, humid currents from the south causes a great deal of snow to fall in the winter months. In summer, humidity and heavy rain take the place of snow.

Atlantic Provinces (New Brunswick, Nova Scotia, Prince Edward Island, Newfoundland & Labrador)

This region enjoys a relatively temperate climate, although not as mild as the west coast. There is a relatively high snowfall and adequate summer rainfall. New Brunswick's northwest region receives more than one-third of its precipitation as snow. The coastal region is several degrees warmer with only 15 to 20% of annual precipitation being snow. The average frost-free period ranges from about 100 days in the northwest to 170 along the Fundy coast. Average January temperature in Nova Scotia is about -4 °C with the summer mean temperatures in the high teens Celsius. The coastal areas are milder and wetter than the interior. Nova Scotia averages 160 frost-free days along the coast and 100 in parts of the interior. Prince Edward Island's winters are long but mild with an average mean temperature of -7 °C in January and 18 °C in July. The annual precipitation averages 112 cm. Winter in Newfoundland is very cold with mean temperatures averaging -20 °C, and summers are cool with a July mean temperature of 5 - 10 °C. Precipitation is low with an annual average of 46 cm, of which 50 % falls as snow. Labrador's mean temperatures in January are -18 °C to -23 °C with July recording mean temperatures of 13 °C to 17 °C. Newfoundland receives the most fog, freezing rain and wind of any Canadian province. Argentia, on the southwest coast of Newfoundland averages 206 foggy days per year.

Canadian Geography

Canada spans 5,500 kilometres from west (Yukon-Alaska border) to east (Cape Spear, Newfoundland) and 4,600 kilometres from north (Ellesmere Island in the High Arctic) to south (Middle Island in Lake Erie) for a total of 10 million square kilometres.

Northwest Territories

The Northwest Territories have little potential for farming since most of the soil was scraped away during the ice age leaving a sheet of rock covering more than half of this region. The southern portion also houses low-lying swamps, countless lakes and forests of fir, pine, spruce, cedar, tamarack, birch and aspen. The northern portion is a vast plain of mosses, lichens and hardy dwarf willows.

British Columbia

The Rocky mountains, with their picturesque high, sharp, snow-covered peaks, stretch along the eastern edge of British Columbia. The Coast Range extends the entire Pacific coast and is 160 kilometres wide. Between the Rocky mountains and the Coast Range, cut by rivers, is a belt of low mountains, rolling hills and plateaus. The former beds of glacial lakes produced the flat plains.

Prairie Provinces (Alberta, Saskatchewan, Manitoba)

The Rocky Mountains form the southern portion of Alberta's western boundary with British Columbia. Southern Alberta's prairie region consists of dry, mostly treeless, gently rolling grassland. The parkland region of central Alberta varies from the flatland of old lake bottoms to rolling landscape with numerous lakes and depressions. In the boreal-forest region, covering the northern half of the province, great rivers and lakes abound the landscape. Saskatchewan measures 1,225 kilometres long, 630 kilometres wide across the south and 445 kilometres across the north for a total area of 651,900 km². Covering the northern third of Saskatchewan is the Precambrian Shield characterized by rugged rock exposures and many lakes. South of the Shield is an area of level or gently rolling plains. To the west and across the southwest corner is another plain region of rolling and hilly terrain distinct from that of the north. In the extreme southwest is the Cypress Hills, the highest point of land in Canada east of the Rocky Mountains. Saskatchewan's landscape consists of undulating slopes, unlike the flat horizons often associated with the prairies. Manitoba's minor terrain features were formed during the close of the last ice age. The shield rocks were severely eroded, leaving a marshy surface with numerous lakes, streams and bogs.

Central Canada (Ontario, Quebec)

Central Canada stretches 1,000 kilometres west (shores of Lake Huron) to east (Quebec City). Roughly one-fifth of Ontario's total area is occupied by lakes and rivers. Much of the soil scraped from the Northwest Territories during the ice age settled here resulting in one of Canada's most favourable belts of agriculture land.

Atlantic Provinces (New Brunswick, Nova Scotia, Prince Edward Island, Newfoundland & Labrador)

The Atlantic region, excluding Labrador, measures 1,300 kilometres from east to west, and 900 kilometres from south to north. Newfoundland is physically divided into 2 units of area, the larger unit being the mainland of Labrador in the north and the smaller unit being the island of Newfoundland. Labrador's northern coast is ruggedly mountainous and deeply fjorded, the southern coastal region is rugged, barren foreshore and forested hinterland. The vast interior is a well-forested, dissected plateau. The rain, wind and glaciers have worn Newfoundland's interior mountainous area down to rolling hills from 150 to 800 metres high. These highlands have poor soil and rough terrain. The lowlands, however, are good for farming. Prince Edward Island has an area of only 5,660 square kilometres. The western region of the island is fairly level and becomes hilly as you travel east. Nova Scotia has a

serrated, 10,427 kilometre shoreline. The southern and central part of the province is marked by many inlets, islands, coves and bays. The North Mountain runs parallel to the South Mountain for 190 kilometres along the Bay of Fundy. Between the mountains is the fertile valley of the Annapolis and Cornwallis rivers. Its southern border constitutes the South Mountain. Northern Cape Breton Island is a wild, wooded plateau, which rises to a height of more than 520 m above sea level. In contrast, the southern part of Cape Breton is largely lowland. New Brunswick's northern uplands rise to 820 m and are mountainous in appearance, the central and eastern area display gently rolling hills while the southern coast's sharp hills slope down to tidal marshes and a lowland plain in the southeast.

Canadian Horticulture

Vegetables

The potato is the most important vegetable crop in Canada, accounting for about 60% of all vegetable farm cash receipts or \$608 million in 1998. Farm cash receipts rose by 17% in 1998 due to increased production and slightly improved prices. Canadian production at 4 million tonnes(t) was concentrated in PEI (31%), Manitoba (19%), and New Brunswick (16%) and Alberta, Quebec, Ontario all about 10%. In 1998, 158,900 hectares (ha) were planted, a new record, and yields averaged 27.5 t / hectare (ha). Varieties of potatoes vary from province to province with Russet Burbank and Shepody being the main frying cultivars; Snowden, Atlantic, Norchip, and Superior the main chipping cultivars; and various Russet types, Superior, Norland, Kennebec & Yukon Gold are some of the leading table cultivars. Over 150 cultivars of seed are grown for sale in Canada by 887 seed potato growers on 34,868 ha. In keeping with historic tendencies, sweet corn and green peas remain the next two most intensively planted vegetable crops in Canada this year. Although these two crops hold their rank as the most prolifically cultivated of the vegetable crops surveyed, their area under cultivation continues to drop. Indications are that the area dedicated to the production of green peas will fall to 37,755 acres [15,279 hectares] this year from the 46,546 acres [18,616 hectares] planted in 1998. This decrease follows a 1% decline in area planted observed between 1997 and 1998. Over the same three-year period, sweet corn area under cultivation has decreased by 5%. Total area being seeded for sweet corn production fell from 86,466 acres [34,803 hectares] in 1997 to 82,100 acres [33,184 hectares] planted in the current year. In contrast, survey results indicate that dry onion area will increase by 17% this year, rising from 10,993 acres [4,047 hectares] to 12,820 acres [4,856 hectares]. Cucumber and gherkin area is also expected to increase by an impressive 10%. An additional 839 acres [340 hectares] will be added to the 8326 acres [3,369 hectares] planted in 1998. The area cultivated for field tomatoes rose by 7.3% to 21,590 acres [8,738 hectares] in 1999, ending four years of decline. In Ontario, which accounts for 89% of planted tomato acreage, processing area remained constant while land reserved for the fresh market rose by 72% to 4,000 acres [1,619 hectares].

Fruit

The 180,800 acres [73,167 hectares] under cultivation for blueberry [highbush and lowbush], apple and grape production represents 78% of the total fruit area under cultivation this year. [Lowbush] blueberries are by far the most intensively cultivated fruit crop in Canada, with 90,835 acres [36,760 hectares] being tended. The area dedicated to apple production has fallen continuously over the last five years to a current level of 71,370 acres [28,882 hectares]. Apple area has diminished by an average of 3% in each of the last five years.

The 18,595 acres [7,525 hectares] allocated to grape production represents

a modest decrease to the area cultivated last year. Consistent increases in area being cultivated for grape production was witnessed in each of the four previous years. Grapes grown for wine production are by far the most dominant cultivar of grapes being cultivated, representing 77% of the total grape area under cultivation.

Statistics Canada, Publication 22-003-XIB

Greenhouse Industry

Total greenhouse sales continued the annual growth experienced by the industry over the past two decades. In 1998, total sales increased 7.7% to reach \$1,189 million. However, the total area used for greenhouse production increased by only 0.2%, to encompass 139 million square feet or approximately 3,192 acres [1,292 hectares] under glass or plastic. Revenues generated from the sale of flowers and plants increased by 7.3% to \$904 million from \$834 million in 1997. Ontario continues to account for the largest proportion of these sales at 51.7% followed by British Columbia with 22.7% and Quebec with 11.8%. Sales to wholesalers and those direct to the public continued to be the preferred channel for marketing flowers and plants, representing 25.4% and 21.4% respectively of total flower and plant sales.

For the first time in several years, sales of greenhouse vegetables declined slightly in proportion to the sales of flowers and plants. In 1997, sales of greenhouse vegetables accounted for 24.5% of the total greenhouse sales, however, in 1998 the vegetable share of total greenhouse sales decreased to 24.0%. Interestingly, the production of vegetable bedding plants for sale has increased dramatically by 37.2% from 254 million plants in 1997 to 348 million plant in 1998.

Statistics Canada, Publication 22-202XIB

Canadian Distribution of Horticulture

British Columbia - The coastal region of British Columbia is the mildest production area. The mid-Fraser Valley is one of the world's most favourable areas for raspberry production. Blueberries (highbush) and cranberries are grown in the delta region, as well as vegetable crops. Most of British Columbia is very mountainous with less than 5% arable land. In the interior the mountain valleys are suited to fruit production.

Prairie Provinces - The principal fruit is the apple or crabapple. Amelanchier is a popular wild shrub that is now being grown domestically for its berry-like fruits. Some wild *Prunus* species, such as chokecherry are also of interest for the processing industry. Strawberries do well where there is adequate snow cover. Vegetable crops must be suited to the relatively short growing season, 110 to 125 frost-free days. Such crops as sweet corn and tomatoes require the earliest cultivars. Most horticultural crops require supplementary irrigation, especially in the southwestern Prairies.

Ontario - Southern Ontario is an important horticultural area in Canada. The Niagara Peninsula region is well-suited for the production of peaches, cherries, grapes and other tender fruit. The extreme southwestern part of Ontario is especially suited for vegetable crops including processing tomatoes and sweet corn. Limited deposits of organic soils are used for fresh vegetable production, especially carrots, lettuce, celery and radishes.

Quebec - Southern Quebec is also a suitable horticultural area, though the only tree fruit that will survive is the apple. Processing vegetables are important in Quebec, especially peas, beans, corn and some tomatoes. The province is the major Canadian producer of canned green and wax beans.

This area is the site of major organic soil deposits and such vegetables as lettuce, carrots and cole crops are important.

Atlantic Provinces - Small fruits are important, especially strawberries with a number of cultivars being developed in Kentville, NS. Blueberries are principally in "managed" plantations of the wild lowbush blueberry. Potato production takes place in most regions of Canada, but here in New Brunswick and Prince Edward Island, there is an extensive processing industry with emphasis on frozen "french fries" and seed potatoes. Nova Scotia's Annapolis Valley is famous for its fruit and vegetable production, particularly apples.

Canadian Research Thrusts

The focus is on research of national significance that is valuable to the country by developing and transferring new technology to improve the on-going competitiveness of Canadian horticulture. The research creates new scientific knowledge and contributes to the quality of life by supporting competitiveness through reducing the cost of producing and processing food and non-food products, improving the quality and safety of food products, advancing environmental practices that sustain horticulture production in the long term and transferring technology. Farmers, food processors, agri-businesses, consumers, consultants, federal departments, provincial departments and universities use the concepts, data, products and processes developed.

Nature of Institutes in Canada

Agriculture and Agri-Food Canada - The Research Branch of the federal Department of Agriculture and Agri-Food Canada is the largest research organization in Canada with 18 centres of excellence across the country, 12 which conduct horticulture research. The Canadian Food Inspection Agency of Agriculture and Agri-Food Canada also undertakes horticultural research at the Sidney Centre for Plant Health in British Columbia as well as The Prairie Farm Rehabilitation Administration in Saskatchewan.

Universities - Eight universities undertake teaching and research in horticulture across Canada. There is one in each of the five western provinces, three in Quebec and one in the Atlantic province of Nova Scotia. Post graduate training to the Master's and Doctorate level is available at eight and seven of these universities respectively. Laval University, offering post-graduate training in horticulture, is the only French-speaking institution.

Provincial Governments - The provinces of Alberta, New Brunswick and Nova Scotia undertake horticultural research in response to regional needs. The main Centre for provincial horticultural research in Ontario is the University of Guelph, Department of Plant Agriculture. Although the Quebec Ministry of Agriculture, Fisheries and Food supports research at two establishments in the province, almost all research activities have been privatized with most of the research scientists in horticulture being transferred to IRDA (Institut de Recherche et de Développement en Agroenvironnement), a private corporation.

Private and Commercial Institutions - A few private and commercial institutions and botanical gardens conduct independent horticultural research for specific purposes in such fields as ornamental displays and nursery stocks, fruit and vegetable crops for processing and chemicals for pest control. In addition, a small number of amateur and professional horticulturists conduct specialized breeding work with certain ornamental, vegetable and fruit species.

Scientific Societies - The Agricultural Institute of Canada is a professional organization engaged in all aspects of agriculture in Canada. Affiliated with it is the Canadian Society for Horticultural Science (CSHS). The CSHS is a society of professional horticulturists which exists to promote and foster the science of horticulture in Canada. The present membership is about 200. Annual and regional meetings are held each year. Horticultural research findings and technical information are published in a wide variety of scientific journals and trade magazines.

AGRICULTURE AND AGRI-FOOD CANADA

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The Department of Agriculture and Agri-Food promotes the development, adaptation and competitiveness of the agriculture and agri-food sector through policies and programs that are most appropriately provided by the federal government. The overall goal is to help the sector maximize its contribution to Canada's economic and environmental objectives and achieve a safe, high quality food supply while maintaining a strong foundation for the agriculture and agri-food sector and rural communities.

The Research Planning and Coordination (RPC) Directorate assists the Assistant Deputy Minister and directors general in providing corporate services to support agri-food research and technology-transfer programs. RPC's work facilitates administration, financial decision making, promotion, information management, research coordination and issues management, nationally and internationally, planning and formulation of science policy and human resources management. The information the directorate produces is used federally, provincially, and abroad by the agri-food industry (farmers, producers, and processors, and their associations), government and other funding powers (senior departmental executives and politicians developing science policy), the scientific community (academics and specialists studying agriculture and the environment) and the public (students, reporters for the farm and general media, and a concerned public wishing to influence science policy).

Canadian Food Inspection Agency regulates plants, plant products and related items to prevent the entry and spread of plant pests and diseases. Imported plants and plant products are capable of introducing new pests into Canada that could threaten Canadian agriculture and forestry. CFIA's Plant Health and Production Division is responsible for developing programs to protect plant life and the agricultural and forestry sectors of the Canadian economy. The regulatory authority to carry out this mandate is provided under the Plant Protection Act and Regulations.

Prairie Farm Rehabilitation Administration has been working with rural Prairie people for more than 60 years, helping them meet the challenges presented by a demanding climate and an ever-evolving agricultural industry. They serve over 30,000 clients annually, through ongoing programs and short-term initiatives offered from a network of district and regional offices and special Centres in the three Prairie Provinces, and the Peace River region of British Columbia. While they have adjusted their programs over time to remain relevant, its focus has been constant - to ensure the sustainable use of the Prairie's irreplaceable soil and water resources. PFRA's activities

complement and strengthen Agriculture and Agri-Food Canada's goals of sustainability and building a strong foundation for rural communities.

Research Programs

Field crops, Vegetables, Tree fruits and berries, Ornamentals, Cereals, Oilseeds, Forages

Research Branch (RPC)

Pacific Agri-Food Research Centre

4200 Highway 97
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Pacific Agri-Food Research Centre conducts research on horticultural and field crop production and protection including tree fruits, small fruits, greenhouse vegetables, and special crops; advanced processing, utilization, and quality of plant products; the cellular and molecular biology of plant pathogens of significance to agricultural crops; and soil resource conservation and land evaluation.

* Pacific Agri-Food Research Centre (Agassiz), Research Branch, Agriculture and Agri-Food Canada, P.O. Box 1000, Agassiz, British Columbia V0M 1A0
Tel. (604) 796-2221

Fax (604) 796-0359 EM: PARC@em.agr.ca Internet:
<http://res.agr.ca/summer/parc.htm>

Local Geographic Data

Elevation - 454 m
Annual Rainfall - 283 mm
Hours of Sunshine - 2023

Commodity

vegetable crops, tree fruits, small fruits and speciality crops

Discipline

crop production, crop protection, postharvest and food processing

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The Lethbridge Research Centre promotes the development of sustainable and profitable production systems for dry and irrigated cultivated land in the southern Canadian prairies and the transfer of new technology to the agricultural industry.

Geographic Data
Elevation - 923 m
Annual Rainfall - 405 mm
Hours of Sunshine - 2370

Commodity
vegetable crops (potato, bean)

Discipline
crop production and crop protection

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The Saskatoon Research Centre and its research farms bring a long-term commitment in crops research to the agri-food industry in western Canada. The centre's deliverables are research to expand the utilization of prairie crops and conservation, documentation, and distribution of diverse germplasm by Plant Gene Resources of Canada.

Staff List

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At Morden researchers develop improved cultivars and better production and protection practices for the prairie region for landscape plants and maintain germplasm of alternative crops and winter-hardy woody ornamentals.

Geographic Data
Elevation - 299 m

Annual Rainfall - 528 mm
Hours of Sunshine - 2197

Commodity

Ornamentals and vegetable crops

Discipline

Breeding, crop production and crop protection

Staff List

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Greenhouse and Processing Crops Research Centre

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The Greenhouse and Processing Crops Research Centre develops methods for improving the productivity of greenhouse vegetable crops and field vegetable crops. In addition, it conducts research in Ontario soils to develop best management practices, improve quality and characterize physical and chemical attributes. The Canadian Clonal Genebank is also located at the centre.

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Geographic Data

Elevation - 191 m

Annual Rainfall - 837 mm

Hours of Sunshine - 1991

Commodity

Vegetable crops, soils

Discipline

Crop production

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The Southern Crop Protection and Food Research Centre and its research sites bring a long-term commitment in crop protection and food research to the agri-food industry in southern Ontario. The centre's mandate is to develop alternative and environmentally acceptable technologies for the protection of tree fruits, vegetables, field, and ornamental crops from disease and insect pests; develop alternative crops and sustainable management practices for coarse-textured soils; determine the impacts of sustainable agronomic practices on soil and water quality; develop processes for eliminating food-borne pathogens; develop methodologies for detecting chemical residues and minor food constituents that enhance food quality and integrate sustainable production practices and food quality. Multidisciplinary teams conduct research programs of the Southern Crop Protection and Food Research Centre (SCPFRC) at London, Guelph, Vineland, and Delhi. The centre's headquarters is located in London on Sandford Street and at the Siebens Drake Research Institute at the University of Western Ontario.

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Geographic Data

Elevation - 278 m

Annual Rainfall - 909 mm

Hours of Sunshine - 1894

Commodity

Tree fruits, vegetables and ornamentals

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Food Research and Development Centre

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The Food Research and Development Centre in Saint-Hyacinthe helps Canada's food industry to become more competitive by conducting research in the area of food processing. The centre also promotes the development and transfer of new technologies by providing Canada's food and beverage industry with a technological environment and making scientific and technical staff available to the industry for the implementation of its research and development projects.

Commodity
Fruits and vegetables

Discipline
Food processing

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Horticulture Research and Development Centre

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The Horticulture Research and Development Centre (HRDC) in Saint-Jean-sur-Richelieu specializes in vegetable crops but also devotes some activities to meeting unique regional needs in other crops. By developing precision farming, biopesticides, and advanced postharvest technologies, the centre meets research needs in the areas of production, protection and preservation of vegetable crops.

Geographic Data

Elevation - 38 m
Annual Rainfall - 391 mm /season
Hours of Sunshine - 1100 /season (est.)

Commodity

Vegetables

Discipline

Postharvest, crop protection and crop production

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The Potato Research Centre (PRC) is responsible for breeding new potato cultivars and improving germplasm, developing technologies for the production, handling, and management of potatoes and protection of natural resources.

Geographic Data

Elevation - 25 m

Annual Rainfall - 436 mm /season

Hours of Sunshine - 1878

Commodity

Vegetables

Discipline

Breeding and crop production

Staff List

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The Atlantic Food and Horticulture Research Centre develops new cultivars and technologies for the production, adaptation, and protection of horticultural crops. In addition, it develops innovative technology for their storage, handling and processing.

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Geographic Data

Elevation - 30 m
Annual Rainfall - 1177 mm
Hours of Sunshine - 1785

Commodity

Small fruit, tree fruit, vegetable and postharvest

Discipline

Breeding, crop production, crop protection and postharvest

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Crops and Livestock Research Centre

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The Crops and Livestock Research Centre has a mandate for conducting research on sustainable production systems, with emphasis on potatoes. The Centre conducts research on the management, protection, and nutrition of potatoes as well as soil management and conservation, management of carrots, cole crops, strawberries and lowbush blueberries.

Geographic Data

Elevation - 15 m

Annual Rainfall - 1100 mm

Hours of Sunshine - 1835

Commodity

Vegetable, small fruit and soils

Discipline

Crop production and crop protection

Staff List

Arsenault, W.J.

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Atlantic Cool Climate Crop Research Centre

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The Atlantic Cool Climate Crop Research Centre conducts research for crop production on mineral and peat soils under cool climate conditions. It develops techniques for production of vegetables and small native fruits (blueberry, lingonberry). It operates a substation for small fruit research at Avondale.

Geographic Data

Elevation - 114 m
 Annual Rainfall - 1221 mm
 Hours of Sunshine - 1536

Commodity

Vegetables and small fruits

Discipline

Crop production

Staff List

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Canadian Food Inspection Agency

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The Centre for Plant Health, formerly the Saanichton Plant Quarantine Station, is operated by the Canadian Food Inspection Agency. The facility is the national centre of expertise for plant virus and virus-like diseases of tree fruit, grapevine, ornamental plants and small fruit, and is located on approximately 48 hectares of land south of Sidney on Vancouver Island.

Geographic Data

Elevation - 30 m

Annual Rainfall - 640 mm

Hours of Sunshine - 2200

Commodity

Tree fruit, small fruit, grapevines, weedy ornamentals

Discipline

Virology, molecular biology, horticulture

Staff List

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The PFRA Shelterbelt Centre is a federal tree nursery that promotes economic security, rural development and agricultural sustainability by producing hardy trees and shrubs for prairie farmers and other eligible clients. The Centre also conducts applied research on tree related issues including tree improvement, planting technology, weed control, pest control and agroforestry.

Geographic Data
Elevation - 613 m
Annual Rainfall - 391 mm
Hours of Sunshine - 2333

Commodity
Ornamentals

Discipline
Crop production and crop protection

Staff List

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The Faculty of Agricultural Sciences has been restructured and is introducing new undergraduate degree programs in Agroecology, Food Nutrition and Health, Community and Environment and Global Resource Systems to better serve students in the 21st century. Staff members associated with Agroecology, Landscape Architecture and the UBC Botanical Garden represent the UBC centre for teaching and research in horticultural plant production, protection and utilization. Particular research strengths in the faculty include crop ecology, physiology and biotechnology, environmentally sound approaches to crop protection and sustainable management of land/water and urban/rural interfaces. Graduate programs are available in horticulture and related disciplines and in Landscape Architecture.

Geographic Data

Elevation - 93 m
Annual Rainfall - 1250 mm
Hours of Sunshine - 1870

Commodity

Ornamentals, vegetables, tree fruit and small fruit

Discipline

Crop production, crop protection and postharvest

Staff List

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Research Focus: Plant pathology - epidemiology and control of diseases of greenhouse vegetable crops

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Herrington, S.
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Research Focus: Ornamental horticulture - Curator Alpine Garden

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Research Focus: Crop physiology and weed science - UV effects on crops
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A field research service building of 1,852 m² and grain research laboratories exist at the Edmonton Research Station that is used by crop researchers for handling samples from studies on University stations or at distant public or farm research sites. A computerized weather station continuously logs environmental conditions at both Research Stations. State of the art sample dryers are available, as well as seed storage and material handling facilities. A full infrastructure support unit also exists at this site, that manages land use, crop rotations and equipment repair for the Edmonton Research Station, Ellerslie Research Station and for on-farm research sites. This facility is also used for University teaching and for technology transfer short courses, collaboratively with industry and government.

Departmental plant growth facilities are mainly located at the Agriculture/Forestry Centre on campus. These facilities consist of 15 greenhouse compartments, 3 growth rooms, 2 plant tissue culture rooms, and approximately 40 plant growth cabinets. Each greenhouse compartment is connected to a computer-controlled automatic fertigation system and contains high pressure sodium lamps for supplemental lighting. Controlled temperature (5-30°C) growth rooms and cabinets range from 0.4-14 square metres. The plant tissue culture rooms contain 48 square metres of lighted growing area (2,781 Em²), for tissue culture, molecular biology and biotechnology research.

Geographic Data

Elevation - 665 m

Annual Rainfall - 447 mm

Hours of Sunshine - 2315

Staff List

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Saskatoon is a leading centre for agricultural research with the largest concentration of biotechnology research and development in Canada and one of the largest in the world. Almost half of Canada's arable land (18.6 million hectares) is found in Saskatchewan. Agricultural produce totals \$5.4 billion a year, with value-added processing and spin-off agricultural activities adding many more millions of dollars annually. Leading-edge University of Saskatchewan research helps Saskatchewan agriculture to stay globally competitive and to find ways to feed the world more effectively.

Geographic Data

Elevation - 497 m

Annual Rainfall - 370 mm

Hours of Sunshine - 2318

Commodity

Fruits, vegetables and special crops

Discipline

Breeding and postharvest

Staff List

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The Department of Plant Science plays an important role in educating both undergraduate and graduate students in basic plant sciences and applied crop production. As well, it maintains an active research program directed at developing superior cultivars and new production systems suited to the changing needs of Manitoba farmers and the agri-food industry. The Department has a large laboratory and greenhouse complex and excellent field facilities for training students and conducting research in areas such as plant breeding, molecular genetics, host-pathogen interactions, agronomy and crop management, weed control and physiology. Research spans a wide range of crops including potatoes, cereals, alfalfa, canola and both tame and native grasses. In recent years the Department has maintained its long-standing strengths in areas such as crop breeding, plant pathology and horticultural science, and placed new emphasis on cropping systems research, forage production and plant biotechnology. This is reflected in the teaching curriculum, as well as in the research program.

Geographic Data

Elevation - 215 m
Annual Rainfall - 500 mm
Hours of Sunshine - 2200

Commodity

Vegetables

Discipline

Breeding, crop production and crop protection

Staff List

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Remphrey, W. R.

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University of Guelph, Ontario Agricultural College

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The University of Guelph was established in 1964 when three founding colleges - the Ontario Veterinary College (1862), the Ontario Agricultural College (1874) and Macdonald Institute (1903) - joined with a new college of arts and sciences. Today, there are six colleges in total, spanning the natural sciences, social sciences and humanities, three satellite agricultural colleges, at Ridgetown, Kemptville and Alfred, and the Horticultural Research Institute of Ontario. The main campus of more than 405 hectares includes a 165-hectare Arboretum and a 12-hectare Research Park. The Ontario Agricultural College is committed to training tomorrow's agrifood leaders today. Over the past 125 years, OAC has educated more than 23,000 students in modern agricultural practice, including agribusiness management, horticulture, plant and animal biology, food science and rural extension studies. The oldest and largest agricultural college in Canada, OAC is internationally renowned for its excellence in agricultural education and research, and for contributing to the strength of Canada's agrifood industry. The Department of Plant Agriculture includes the Crop Science division, Horticultural Science division and the Horticultural Research Institute of Ontario. Colleges conducting horticultural research are the three regional colleges of Alfred College, Kemptville College and Ridgetown College. The University enjoys a close working relationship with the Ontario Ministry of Agriculture, Food and Rural Affairs in the provision of education and research.

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A vital partnership was created when the departments of Horticultural Science and Crop Science and the Horticultural Research Institute of Ontario (HRIO) became the Department of Plant Agriculture. Designed to strengthen the existing disciplines and provide new opportunities for co-operation in research and teaching, the department has four divisions - horticultural science, crop science, plant biotechnology and the HRIO (part of the University's enhanced partnership with the Ontario Ministry of Agriculture, Food and Rural Affairs). The horticulture science, crop science and plant biotechnology divisions are located within the university whereas the Horticultural Research Institute of Ontario, consists of one central research unit and two branch locations. The headquarters are in Vineland Station, located on the south shore of Lake Ontario west of St. Catharines. The two branch locations are the Simcoe Research Station near the north shore of Lake Erie and the Muck Crops Research Stations near Bradford, in the Holland Marsh north of Toronto. The Vineland Station complex houses the central common services for the whole Institute: administration and accounting, library services, laboratories and engineering expertise for research projects. The Institute provides applied research and services for the production, evaluation, handling and storage of horticultural produces including fruits, vegetables and ornamentals.

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Geographic Data

Elevation - 78 m
Annual Rainfall - 833 mm
Hours of Sunshine - 2035

Staff List

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On April 1, 1997, as a result of an Enhanced Partnership Agreement between the Ontario Ministry of Agriculture, Food & Rural Affairs and University of Guelph, responsibility for three agri-food colleges at Ridgetown, Alfred and Kemptville was transferred from OMAFRA to the University. These Regional Colleges coordinate administratively with the University, yet continue to serve the needs of their region. Kemptville and Ridgetown Colleges conduct horticultural research.

Kemptville is the oldest college of agricultural technology in Ontario and was established in 1916 to demonstrate and teach modern methods of agriculture. Since that time, Kemptville College has expanded to include research stations at Winchester, New Liskeard, Thunder Bay and Emo. Kemptville College, located less than an hour's drive south of Ottawa, offers programs in a wide-range of applied research related fields. With 12 hectares of manicured grounds and gardens and nearly 405 hectare campus, the College acts as an outdoor lab for landscape plants and plant identification. The Kemptville College Horticulture Unit focuses on turf, with a minor emphasis on sweet corn and small fruit research. Research on lowbush, half-high and highbush blueberry, lingonberry, cranberry and sweet corn cultivar trials is currently underway. There is significant potential for research to expand to include pesticides, management and economic studies.

* Kemptville College, 830 Prescott St., PO Box 2003, Kemptville, Ontario K0G 1J0 Tel. (613)258-8336 Ext. 335 Fax. (613)258-8384

Ridgetown College has a long tradition of education, research, and service to the community. Located in the municipality of Chatham-Kent in Southwestern Ontario, Canada, Ridgetown College provides the advantages of a rural small town atmosphere with the opportunities of larger centres less than 60 minutes away. The campus grounds cover over 202 hectares which are used to house both educational and research facilities, test plots, the J.J. Neilson Arboretum and land for crop production. Leading edge agricultural research plays a major role at Ridgetown College and allows them to serve the rural community in which they are located. The research programs at Ridgetown College combine discovery with an applied focus to address the concerns and opportunities within the agricultural and horticultural sectors. The wide range of programs is centred on an extensive field and horticultural crops mandate including plant breeding, crop management, soil and water conservation, pest management, farm management and economics. At the Cedar Springs Research Station, located approximately 45 km south east from the College, many hectares of small fruit and tree fruit research are conducted while at the Huron Research Station, 140 km north west from the College, extensive crop production and pest management activities take place. It is their mandate to assemble and manage planting and specimen collections, develop and create demonstration theme landscapes, and maintain the grounds of Ridgetown College, for the purposes of education, research and recreation. The Arboretum is maintained through a joint effort between Ridgetown College and the Ridgetown and District Horticultural Society.

** Ridgetown College, Main St. East, Ridgetown, Ontario N0P 2C0 Tel. (519)674-1610 Fax. (519)674-1600

Geographic Data
Elevation - 206 m
Annual Rainfall - 820 mm

Hours of Sunshine - 1990

Staff List

*Curnoe, W.

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Research Focus: Horticulture - (Director) soil management, plant nutrition

*Hawkins, B.

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Research Focus: Horticulture - agricultural engineering

*Hughes, B.

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Research Focus: Horticulture - horticultural production, seed potato, tissue culture

*Johnston-Berresford, P.

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Research Focus: Horticulture - ornamentals, small fruit, turf

Loewen, S.

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Research Focus: Tomato breeding

*Madill, J.

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Research Focus: Horticulture - small fruit

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Research Focus: Ornamental horticulture/Arboretum

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Research Focus: Mushrooms/vegetable crops/turf

*Rose, S.

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Research Focus: Horticulture - food quality and product analysis

Zandstha, J.

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Research Focus: Fruit and vegetable production

Cool Climate Oenology and Viticulture Institute (CCOVI) - Brock University

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The Cool Climate Oenology and Viticulture Institute (CCOVI) is a partnership between Brock University and the Ontario grape and wine industry. CCOVI was established in 1996 as a centre for cool-climate grape and wine research. In addition, through the Institute, Brock University offers an Honors Bachelor of Science degree in Oenology and Viticulture, the only program of its kind in Canada. The Institute provides leadership in enhancing and

co-ordinating research and technology important to the grape and wine industry. This mission is to help industry continue to build upon its very strong position and reputation in an increasingly competitive world market. The Institute's research programs and resources stimulate the development and acceptance of new technologies, and provide education in Oenology and viticulture. The Institute provides technical and library services and plays an active role in disseminating information on new trends, technologies and scientific developments. To facilitate industry ties, the Institute is guided by its Advisory Council, consisting of representatives from industry, Brock and other universities and colleges, as well as government agencies.

Geographic Data

Elevation - 79 m

Annual Rainfall - 797 mm

Hours of Sunshine - 2030

Commodity

Grapes and wines

Discipline

Viticulture, enology, analytical chemistry, microbiology

Staff List

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Research Focus: Viticulture & Enology

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The scientific programming of the Research Centre in horticulture (CRH) has as a principal objective to study various aspects of the physiology and the phytoprotection of the horticultural plants. The goal is to develop new respectful technologies of the environment which make it possible to improve quality and harmlessness of the horticultural products.

Geographic Data

Elevation - 75 m

Annual Rainfall - 1174 mm

Hours of Sunshine - 1852

Staff List

Arul, J.

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Research Focus: Crop Protection

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Research Focus: Vegetable research - production

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Research Focus: Fruit and vegetable research - production

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Research programs seek to understand basic cellular processes as well as field-oriented problems. Our field research facilities are unique in the range of ecosystems that are covered. Our laboratory-based resources are also at the

cutting-edge of technology.

Geographic Data

Elevation - 40 m

Annual Rainfall - 920 mm

Hours of Sunshine - 1952

Commodity

Tree fruits, small fruits, vegetables and special crops

Staff List

Barthakur, N.N.

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Research Focus: Natural Resource Sciences - Agricultural meteorology, plant-water relations and ecological behaviour of insects with isotope tracer techniques, environmental and physiological parameters as determinants of drought resistance of crops, heat and mass transfer of plants and atmospheric ions; electrohydrodynamics.

Buszard, D.J.

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Research Focus: Plant Science - The production of fruits using less pesticides by breeding resistant cultivars, and developing new management systems.

Donnelly, D.J.

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Research Focus: Plant Science - Plant tissue culture micropropagation, acclimatization, and screening for salinity tolerance. (Raspberry, strawberry and potato)

Driscoll, B.T.

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Research Focus: Natural Resource Sciences - Carbon metabolism in the Rhizobium-legume symbiosis.

Fortin, M.G.

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Research Focus: Plant Science - The study of plant biotechnology and the genetics of the ability of plants to resist infection by viruses.

Hare, S.J.

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Research Focus: Plant Science - Mycology. Mechanism of biological control of soil borne pathogens. (potato and beans)

Johns, T.A.

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Research Focus:

Plant Science - Traditional use of plants for food and medicine in relationship with nutritional and health needs of indigenous people in different countries. Also focuses on use of these plants in an environmentally sustainable way.

Kushalappa, A.C.

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Research Focus: Plant Science - Epidemiology: Pre- and post-harvest disease monitoring, modeling, forecasting, and management. Current research involves systems approach to manage botrytis gray mold in berry crops and post-harvest diseases of potato.

Mehuys, G.R.

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Research Focus: Natural Resource Sciences - Soil physics and soil conservation. Hydrodynamics of wet soils, soil physical conditions and crop growth, use of organic amendments to improve soil quality, soil erosion by water, erodibility and snowmelt-induced erosion.

Paulitz, T.C.

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Research Focus: Plant Science - Ecology and biological control of soil-borne plant pathogens.

Schuepp, P.H.

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Research Focus: Natural Resource Sciences - Transfer processes of heat, water vapour, CO₂ and pollutants between the atmosphere and the ground (soil or plant canopies). Laboratory simulations of transfer and field experiments using micrometeorological flux measuring techniques.

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Research Focus: Plant Science - Plant biochemistry and physiology. Interactions between fatty acid, carbohydrate and nitrogen metabolism in non photosynthetic plastids.

Stewart, K.A.

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Research Focus: Plant Science - Greenhouse and field vegetable crops specialist.

Watson, A.K.

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Research Focus: Plant Science - Weed biology and control with emphasis on using indigenous fungal pathogens as bioherbicides in agriculture, forestry and the urban environment. Research is also being conducted overseas in West Africa and in Southeast Asia.

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Geographic Data

Elevation - 50 m

Annual Rainfall - 1071 mm

Hours of Sunshine - 1997

Commodity

Vegetables and ornamentals

Staff List

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Research Focus: Botanical Garden - Morphogenesis

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Research Focus: Ecology and improvement of natural environment

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Research Focus: Systematics, floristics, rare plants

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Research Focus: Molecular systematics, evolution and phytoeny

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Research Focus: Genetic and plant improvement, tissue culture, plant reproduction

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Research Focus: Physiology and biochemistry of secondary metabolites, medicinal plants

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Research Focus: Molecular Biology of reproduction, pollen-pistil interactions

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Research Focus: Botanical Garden - Taxonomy

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Research Focus: Physiology, biochemistry and molecular biology of plant responses to stress

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The Nova Scotia Agricultural College, established in 1905, takes a leading role in providing education, research and public service in the agriculture and food industries and related disciplines. The College has since this date been concerned with providing an education for Atlantic Provinces young men and women who wish to work on farms, in agricultural business, teaching, research or extension work. The faculty, facilities and programs reflect a broad, diversified and integrated approach to the life sciences, especially those dealing with agriculture and food including aquaculture, engineering and landscape horticulture.

Geographic Data

Elevation - 40 m

Annual Rainfall - 1139 mm

Hours of Sunshine - 1759

Commodity

Ornamentals, vegetables, tree fruits, small fruits and special crops

Staff List

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Research Focus: Plant Science - Potato production management.

Postharvest physiology of fruits and vegetables. Plant-microbe interactions.

International student/development programmes.

Barka, E.A.

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Research Focus: Plant Science - Plant Physiology, Tuberization Physiology,

Potato Production, Postharvest Physiology of Fruits and Vegetables, Abiotic

stress, Plant stress Mechanism, Plant Senescence.

Goodwin, C.D.

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Research Focus: Plant Science - Effects of cultural practices and transplant

techniques on woody plant. New cultivar production and evaluation. Native

plant evaluation for landscape use.

Goodyear, S.N.

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Research Focus: Plant Science - Vegetable production management and

cultivar evaluation. Physiology of vegetable crops. Ecological/sustainable

farming practices, including organic horticulture.

Ju, H.

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Research Focus: Plant Science - Nutrition, physiology and quality of small

and tree fruit crops. Growth regulators in small fruit crops. Development of

new specialty crops.

Lada, R.R.

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Research Focus: Plant Science - Process Carrot Research Program; bulking

physiology, stress physiology metabolism, membrane function, antistress,

antisenescence compounds, plant growth regulators, environmental

regulation of plant growth, photosynthesis, water relations; Productivity and

Resource optimization modeling.

Mapplebeck, L.R.

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Research Focus: Plant Science - Greenhouse and nursery crop production

Nowak, J.

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Research Focus: Plant Science - Plant biotechnology; utilization of beneficial

bacteria in seed potato production and in vitro studies of plant-microbial

interaction.

Smith, T.D.

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Research Focus: Plant Science - Forest entomology, soil zoology and IPM of balsam fir Christmas trees.

PROVINCIAL GOVERNMENTS

Alberta Agriculture, Food and Rural Development

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The Research Division is responsible for developing research policy and strategic direction, managing research grant programs, agricultural research planning, evaluating agricultural research programs and projects, disseminating research results, coordinating research activities, and providing administrative support to the Agricultural Research Institute.

Alberta Agriculture, Food and Rural Development

Crop Diversification Centre South

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The fruit crops program serves the developing and expanding berry and bush fruit industry in Alberta. Strawberries, raspberries, saskatoons and black currants are the primary crops studied, although other fruit crops are evaluated for their commercial potential. The greenhouse crops program serves Alberta's diverse greenhouse industry through a comprehensive research and extension program. Applied research is conducted in improving production techniques for greenhouse vegetable and floriculture crops. Developing crop diversification opportunities for greenhouse growers is also a focus. Basic research is directed at the development of biological controls for greenhouse diseases. In the nursery crops program, research is focused on cultural management practices for field and container-grown trees and shrubs. As well, new woody plant selections are evaluated for hardiness and landscape quality. The objectives of the potato agronomy program are to assist in the selection and development of improved potato cultivars and to establish methods for improving quality and maximizing economic yields in Alberta's potato industry. Applied field research is designed to serve market gardeners, large-scale fresh vegetable growers, and contract processing growers. Variety adaptation and earliness enhancement of crops through improvements in cultural management practices are the main research activities of the vegetable program.

Geographic Data

Elevation - 756 m
Annual Rainfall - 335 mm
Hours of Sunshine - 2334

Commodity

Small fruits, vegetable crops and ornamentals

Discipline

Crop production and crop protection

Staff List

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Alberta Agriculture, Food and Rural Development

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The Crop Diversification Centre North (CDCN) is a research and development unit of Alberta Agriculture, Food and Rural Development (AAFRD). It is located within the Plant Industry Division, and focuses on applied research and technology transfer through extension and development activities. The Centres' mandate of crop diversification and industry development is achieved by maintaining close and active working relationships with industry organizations, commodity groups, university and federal researchers and individual producers. The Horticulture Unit is responsible for the horticulture commodity-based programs including: fruit crops, greenhouse crops, nursery crops, potato and vegetable crops. The

Unit also manages programs in plant pathology, entomology, micropropagation and market development, with specific responsibilities for Dutch Elm disease and Farmers' Markets. This unit provides administrative and farm equipment support to the New Crops Development and Forage Units at CDCS. The new Crop Development Unit is responsible for special crop development, plant pathology, weed science, postharvest technology, food science and soil and water agronomy support to the Horticulture and Forage Unit. The plant pathology program conducts applied research on important diseases of horticultural, forage and specialty crops. These studies encompass field, laboratory, growth chamber and greenhouse experiments, and disease surveys. The primary objective of the post-harvest technology program is to maximize the longevity and quality of stored horticultural crops. Research efforts are directed towards improving storage management practices used in industry today. Advanced breeding lines from the Prairie Potato Breeding Program are screened for resistance to early blight, verticillium and fusarium wilt, and a range of storage diseases. The Special Crops Program is dedicated to introducing new crops which will contribute to the long-term viability of agriculture in the province. Diversification can contribute to improving crop rotations through inclusion of pulse crops, reduce producers to price volatility in traditional crops and expand the opportunities for value-added processing in Alberta. The Special Crops Program at CDC North has been active in the identification and development of economically-promising crops since 1995. Our focus has been on several categories of new crops: pulses, spices, alternate crops, herbs (medicinal, culinary and aromatic) and fibre crops. The broad range of research in which our program is involved makes it necessary to partner with other clients and collaborators, including: producers, grower associations, processing companies, Agriculture and Agri-Food Canada (AAFC) personnel, university researchers, the Alberta Research Council and other new crop specialists both within and outside the province.

Geographic Data

Elevation - 683 m

Annual Rainfall - 447 mm

Hours of Sunshine - 2315

Commodity

New crops, potatoes, greenhouse crops, vegetables, honey

Discipline

Plant breeding, entomology, pathology, agronomy, market development

Staff List

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The Ontario Ministry of Agriculture, Food and Rural Affairs provides direction for research activities, in the pursuit of a competitive, economically viable and environmentally responsible agriculture and food system.

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The new organization capitalizes on the improved telecommunications network now available. A group of highly trained experts, located strategically throughout the province, act as liaison between farms, communities, rural businesses and the world-wide research and business communities. At the local level, 35 field offices remain in operation, with satellite offices and increasing co-locations. A core group of staff, including a rural community advisor, a client services representative and an agriculture and rural representative deliver services at the local level.

Geographic Data
Elevation - 78 m
Annual Rainfall - 833 mm
Hours of Sunshine - 2035

Commodity
Vegetables, fruits and grapes

Discipline
Crop protection

Staff List

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Research Focus: Potato Specialist

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Goodwin, P.
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Research Focus: Sprayer Application Technology Specialist

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Slingerland, K.
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Research Focus: Tender Fruit and Grape

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Research Focus: Pome Fruit IPM Specialist

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Research Focus: Processing Vegetable Specialist

Verhallen, A.
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The Department of Agriculture, Fisheries and Food contributes to agriculture and biofood research and development efforts by making its R&D resources available to the sector and through its R&D assistance programs. While the Quebec biofood industry has increased its involvement in agriculture and biofood R&D in recent years, public (federal and provincial) and parapublic (universities) institutions are the main bodies engaged in this activity.

Quebec Department of Agriculture, Fisheries and Food (MAPAQ)**Les Buissons Centre of Research and Experimentation**

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Geographic Data

Elevation - 15 m
Annual Rainfall - 416mm/season
Hours of Sunshine - 1043 h/season

Commodity

Vegetables

Staff List

Otrysko, B.
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Research Focus: Head: Agronomist - potato

Quebec Department of Agriculture, Fisheries and Food (MAPAQ)**Centre for the Production of Seed Potatoes**

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Tel. (418)567-2262
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Geographic Data

Elevation - 15 m
Annual Rainfall - 416 mm/season
Hours of Sunshine - 1043 h/season

Commodity

Vegetables

Staff List

Parent, C.
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Research Focus: Head: Agronomist - seed potato

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The New Brunswick Department of Agriculture & Rural Development is an organization of approximately 300 employees serving the many stakeholders of the agri-food industry in this province. It is our aim to encourage self-reliance and self-sufficiency in Agriculture & Rural New Brunswick through partnerships with stakeholders and to ensure that the industry has the necessary tools to remain competitive. To this end, our dedicated staff of specialists provides comprehensive services including those associated with production/technology, marketing, finances, lab/diagnostics and propagation.

New Brunswick Department of Agriculture and Rural Development

The Potato and Horticulture Branch
850 Lincoln Road
PO Box 6000
Fredericton, New Brunswick
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Tel. (506)453-2172
Fax (506)453-7978
EM: agrit@gov.nb.ca
Internet: <http://www.gov.nb.ca/agricult/hort.htm>

The Potato and Horticulture branch provides technical knowledge and strategic direction to facilitate the continuing development of competitive, sustainable potato and horticulture industries.

Geographic Data

Elevation - 25 m
Annual Rainfall - 436 mm /season
Hours of Sunshine - 1878

Commodity

Vegetables, fruits and ornamentals

Staff List

Argall, J.
EM: jargall@gov.nb.ca
Research Focus: Horticulture Division - Blueberry Specialist

Chevrier, G.
EM: gchevrier@gov.nb.ca
Research Focus: Horticulture Division - Section head, Horticulturist

Coleman, S.
EM: scoleman@gov.nb.ca
Research Focus: Head, Plant Propagation Centre

Currie, A.
EM: acurrie@gov.nb.ca
Research Focus: Horticulture Division - Vegetable specialist

Gartley, C.
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Research Focus: Director - Potato and Horticulture Branch

Lynch, K.
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Research Focus: Plant Health Section - Plant Pathologist

Mann, M.
EM: mmann@gov.nb.ca
Research Focus: Horticulture Division - Greenhouse specialist

Maund, C
EM: cmaund@gov.nb.ca
Research Focus: Plant Health Section - Entomologist

McCully, K.
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Research Focus: Plant Health Section - Weed Specialist

Moore, L.
EM: lmoore@gov.nb.ca
Research Focus: Plant Health Section - Seed Potato Specialist

Nickerson, G.
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Research Focus: Horticulture Division - Nursery/Landscape specialist

Perley, S.
EM: sperley@gov.nb.ca
Research Focus: Head, Plant Health Section

Perry, W.
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Research Focus: Horticulture Division - NB Horticulture Centre - Nursery manager

Sweetland, G.
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Research Focus: Horticulture Division - Tree Fruit/Cranberry specialist

Tremblay, R.
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Research Focus: Horticulture Division - Small Fruit specialist

Nova Scotia Department of Agriculture and Marketing
PO Box 550
Truro, Nova Scotia
B2N 5E3
Tel. (902)893-6642
Fax (902)893-0244
EM: DSangster@gov.ns.ca
Internet: <http://agri.gov.ns.ca>

The Nova Scotia Department of Agriculture and Marketing works to promote the development of a diverse rural economy and encourage the development of rural people and communities. It also fosters an environmentally responsible and sustainable agriculture and food industry.

Research Programs

Nova Scotia Department of Agriculture and Marketing
Production Technology
Kentville Agricultural Centre
32 Main Street
Kentville, Nova Scotia
B4N 1J5
Tel. (902)679-6037
Fax (902)679-6062
EM: RWhitman@gov.ns.ca
Internet: <http://agri.gov.ns.ca>

The Nova Scotia Department of Agriculture and Marketing provides a complete package of production and management advice to commercial producers of all horticultural crops grown in Nova Scotia. These include vegetables, berries, tree fruits, maple syrup, apiculture, greenhouse crops, nursery crops, and sod. The department conducts technology transfer demonstrations and applied research in these horticultural crops. The department also conducts field demonstrations, training, and applied research on integrated pest management and promotes general awareness of environmentally-sound pest management and undertakes developmental initiatives that will lead to attainment of the full economic potential of each crop and sector. It provides information on home gardening to the general public.

Geographic Data

Elevation - 30 m
Annual Rainfall - 1177 mm
Hours of Sunshine - 1785

Commodity

Vegetables, small fruits, tree fruits, ornamentals

Staff List

Blenkhorn, M.
EM: MBlenkhorn@gov.ns.ca
Research Focus: Home Garden Specialist

Craig, B.
EM: BCraig@gov.ns.ca
Research Focus: Tree Fruit Specialist

Crozier, L.
EM: LCrozier@gov.ns.ca
Research Focus: Entomologist

Delbridge, R.
EM: RDelbridge@gov.ns.ca
Research Focus: Plant Pathologist

Doohan, D.
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Research Focus: IPM Team Leader & Weeds Specialist

Haliburton, T.
EM: THaliburton@gov.ns.ca
Research Focus: Vegetable Specialist

Lewis, J. C.
EM: JCLewis@gov.ns.ca

Research Focus: Berry Crops Specialist

MacPhail, B.

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Research Focus: Greenhouse Specialist

McIsaac, D.

EM: DMcIsaac@gov.ns.ca

Research Focus: Lowbush Blueberry & Maple Specialist

Morton, J.

EM: JMorton@gov.ns.ca

Research Focus: Landscape & Ornamental Specialist

Rogers, D.

EM: DRogers@gov.ns.ca

Research Focus: Apiculturist & Tree Fruit Entomologist

Whitman, R.

EM: RWhitman@gov.ns.ca

Research Focus: Manager, Horticulture Section

Wilson, J.

EM: JWilson@gov.ns.ca

Research Focus: Horticulture Specialist

PRIVATE AND COMMERCIAL INSTITUTIONS

Novartis Crop Protection Canada Inc.

140 Research Lane

Research Park

University of Guelph

Guelph, Ontario

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Tel. (519)836-5665

Fax (519)823-0504

EM: marian.stvpa@cp.novartis.com

Internet: <http://www.cp.ca.novartis.com>

An independent Canadian crop protection company, Novartis Crop Protection Canada Inc. is focused directly on the needs of Canadian agricultural stakeholders. They have a fully Canadian integrated research approach, from the early stages right through to final registration. The proven strength of their research and regulatory affairs sets Novartis Crop Protection apart within the industry. Research and development activities centre on developing crop protection products and seed treatment initiatives for corn, potatoes, vegetables, fruit and other horticultural crops. Novartis Crop Protection Canada Inc. is committed to state-of-the-art products, services and innovative technologies that deliver efficient and effective solutions to agricultural production problems, with an optimum benefit/risk ratio.

Geographic Data

Elevation - 78 m

Annual Rainfall - 833 mm

Hours of Sunshine - 2035

Commodity

Vegetables and fruits

Staff List

Kopec, M.

EM: myron.kopec@cp.novartis.com

Research Focus: Manager, Development, Western Canada

McCaughey, T.

EM: tara.mccaughey@cp.novartis.com

Research Focus: Development Representative

Wright, H.

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Research Focus: Manager, Development, Eastern Canada

Royal Botanical Gardens

680 Plains Road West

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L8N 3H8

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Fax (905) 577-0375

EM: grow@rbg.ca

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The Mandate of Royal Botanical Gardens is to develop, assemble, document and maintain living collections of plants and animals; to maintain nature preserves; to protect specific environments and flora and fauna that are of special value as parental stocks or may be in danger of extinction; to exhibit its collections to the public in cultivated and natural areas, museums and galleries; to conduct botanical, horticultural and related biological research; to prepare and distribute publications in the areas of research referred to above; to act as an information resource centre for plant sciences and the understanding of natural phenomena, and conduct educational programs, including extension activities; to develop supporting resources such as herbaria, libraries, conservatories, greenhouses, and propagation facilities; and to co-operate with other institutions of learning, research and extension on matters pertaining to biology, horticulture, landscape design, floral art and related pursuits appropriate to a botanical garden.

Geographic Data

Elevation - 50 m

Annual Rainfall - 839 mm

Hours of Sunshine - 2050

Commodity

Ornamentals

Staff List

Eveleigh, D.

EM: develeigh@rbg.ca

Research Focus: Horticulture and Science - Plant Documentation

Co-ordinator

Galbraith, D.

EM: dgalbraith@rbg.ca

Research Focus: Horticulture and Science - Botanical Conservation officer

Graham, C.

EM: cgraham@rbg.ca

Research Focus: Horticulture and Science - Manager of Horticulture

Ingram, S. J.
EM: singram@rbg.ca
Research Focus: Director

Milovsoroff, A.
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Research Focus: Horticulture and Science - Landscape architect

Pringle, J.
EM: jpringle@rbg.ca
Research Focus: Horticulture and Science - Taxonomist/Research Associate

Simser, W.L.
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Research Focus: Horticulture and Science - Natural Lands Steward

Smith, T.
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Research Focus: Horticulture and Science - Field Botanist

The Niagara Parks Commission, Botanical Gardens & School of Horticulture
PO Box 150
Niagara Falls, Ontario
L2E 6T2
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Fax (905)356-5488
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Internet: <http://www.niagaraparks.com>

The School of Horticulture was established in 1936, as the School for Apprentice Gardeners, then on July 12th 1959 the grounds were renamed The Niagara Parks Commission School of Horticulture. The School of Horticulture was designed to enable students to obtain hands on training as well as intensive academic training. The students are responsible for designing the annual bedding as well as other areas on the grounds. The School grounds became a Botanical Garden in 1990. The grounds serve to educate, and as a research resource, as well as providing fun and enjoyment for everyone.

Geographic Data
Elevation - 175 m
Annual Rainfall - 801.7 mm
Hours of Sunshine - 2048 h/year

Commodity
Ornamentals

Staff List

Laviolette, T.
EM: npbg@niagaraparks.com
Research Focus: Botanical Curator

McComb-Page, C.
EM: npbg@niagaraparks.com
Research Focus: Horticulturist

Whitehouse, D.
EM: npbg@niagaraparks.com
Research Focus: Director

Institute of Research and Development in Agroenvironment
 3300, rue Sicotte
 C.P. 480
 Saint-Hyacinthe, Quebec
 J2S 7B8
 Tel. (450)778-6522
 Fax (450)778-6539
 Internet: <http://www.irda.qc.ca>

The Institute of Research and Development in Agroenvironment develops expertise and technologies for the reduction of pollution due to agricultural activities while preserving profitability in an effort to promote sustainable development and resource conservation.

Research Programs include Soil fertility management; Crop pest management/IPM; Soil and water conservation; conditioning, postharvest conservation, energy saving and farm waste treatment processes; and Agroenvironmental economy and management. Special projects include organic agriculture, agriculture in peri-urban areas and biotechnologies.

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Institute of Research and Development in Agroenvironment conducts research in IPM, biological control, physical control of insect pests, diseases and weeds in fruit and vegetable crops, soil fertility management, crop adaptation to environment.

Commodity
 Vegetables and fruits

Discipline
 Crop production and crop protection

Staff List

Beaulieu, B.
 EM: bernard.beaulieu@agr.gouv.qc.ca
 Research Focus: Engineering of farm equipment (spraying and weeding equipment)

Boisclair, J.
 EM: josee.boisclair@agr.gouv.qc.ca
 Research Focus: Entomology, pest identification (monitoring and pest control in vegetable crops)

Chouinard, G.
 EM: gerald.chouinard@agr.gouv.qc.ca
 Research Focus: Agronomy (IPM in orchards, monitoring of plum curculio, Pest Alert Network (orchards))

Desaulniers, G.
 EM: gilles.desaulniers@agr.gouv.qc.ca

Research Focus: Director

Guertin, S.

EM: simon.guertin@agr.gouv.qc.ca

Research Focus: Plant science, Soil science (yield physiology, soil nutrient management in field and cole crops, mineral nutrition, quality of harvested produce, soil and water quality, use of organic and inorganic matter in conventional and alternative cropping systems)

Mailloux, G.

EM: gerard.mailloux@agr.gouv.qc.ca

Research Focus: Entomology (pest ecology, IPM in horticultural crops)

Phillion, V.

EM: vincent.phillion@agr.gouv.qc.ca

Research Focus: Plant pathology (disease detection, postharvest diseases, disease control in apples, potatoes and vegetable crops, Pest Alert Network (orchards), improvement of spray technology)

Tourigny, G.

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Research Focus: Director of Scientific Research

**Institute of Research and Development in Agroenvironment
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Fax (418)644-6855

Internet: <http://www.irda.qc.ca>

The Institute of Research and Development in Agroenvironment conducts research in soil and water conservation, soil fertility management, IPM in strawberries, raspberries, cranberries, potatoes and studies the environmental impact of agricultural practices on soil and water resources at the watershed level. They conduct long term monitoring of soils in several locations across Quebec as well as composting of farm wastes with earth worms and in-vitro techniques.

Geographic Data

Elevation - 75 m

Annual Rainfall - 1174 mm

Hours of Sunshine - 1852 h

Commodity

Vegetables and small fruits

Discipline

Crop production and crop protection

Staff List

Belanger, B.

EM: bruno.belanger@agr.gouv.qc.ca

Research Focus: IPM (potatoes)

Bernard, C.

EM: claud.bernard@agr.gouv.qc.ca

Research Focus: Soil and water conservation (soil erosion, water run-off, diffuse pollution, water quality, Cs-137 soil tagging, minimum soil till,

watershed studies, crop rotation, intercropping, reduction of soil and nutrient exports (N and P) from agricultural fields)

Cote, D.

EM: denis.cote@agr.gouv.qc.ca

Research Focus: Soil physics and conservation (farm manure, soil structure, hydrodynamics, soil conservation practices, soil and water quality, fertilization value of manure, intercropping, environmentally sound pig manure spreading in corn, soil erosion, cropping systems)

Giroux, M.

EM: marcel.giroux@agr.gouv.qc.ca

Research Focus: Soil chemistry and fertility (crop fertilization, soil chemistry, soil fertility, soil quality, potato fertilization, cropping systems, corn mineral needs, phosphorus, potassium)

Hogue, R.

EM: richard.hogue@agr.gouv.qc.ca

Research Focus: Biotechnology (detection of pathogenic bacteria and fungi, biological control with composts, symbiotic fungi, mycorrhizae on potato, and vegetable and small fruit crops)

Laflamme, G.

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Research Focus: Soil science (soil profile, soil mapping, soil databases, soil use)

Martin, D.

EM: daniel-yves.martin@agr.gouv.qc.ca

Research Focus: Hydraulics, greenhouses (environmental conditions in greenhouses for crop yield, energy saving processes in buildings)

Michaud, A.

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Research Focus: Soil and water conservation (soil quality, cultural practices for soil conservation, watershed studies, agroenvironmental indicators, water quality)

N'dayegamiye, A.

EM: adrien.ndayegamiye@agr.gouv.qc.ca

Research Focus: Soil microbiology (soil chemistry and biology, soil mineralization, organic matter, manure, crop rotation and organic amendments, fertilization, composting, intercropping)

Page, F.

EM: fernand.page@agr.gouv.qc.ca

Research Focus: Soil science (zoology, earthworm production, composting with earthworms, maple grove soils)

Romppe, M.

EM: michel.rompre@agr.gouv.qc.ca

Research Focus: Soil science (soil classification, soil mapping, environment, soil science, cropping systems, soil and water quality)

Rousseau, H.

EM: helene.rousseau@agr.gouv.qc.ca

Research Focus: Plant pathology, in-vitro techniques (applied research in plant pathology and propagation and micro propagation techniques (blackcurrant, strawberry, raspberry, indigenous fruits), environmental impact of genetically engineered plants)

Roy, M..

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Research Focus: Entomology, small fruits (applied research in entomology, IPM and biological control (blueberry, cranberry, blackcurrant, strawberry, raspberry)

Thibodeau, P. O.

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Research Focus: Plant pathology, small fruits and vegetable crops (chemical and biological control of Botrytis, development of control strategies for greenhouse vegetable crops and small fruits, Pest Alert Network - small fruits, development of monitoring tools for small fruits pests and disease)

Tran, T. S.

EM: thi.sen.tran@agr.gouv.qc.ca

Research Focus: Soil chemistry and fertility (nitrogen fertilization (N15), soil phosphorus and potassium, liming, soil analysis methods, micro-nutrients, corn and rye cropping, organic amendments)

Tran, V. D.

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Research Focus: Agricultural chemistry (solid fermentation, composting, cell growth energy assessment, cropping techniques of specialty mushrooms)

Vezina, L.

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Research Focus: Plant science (soil and water quality, cropping systems, effect of hardy grasses and mixed crops on soil, intercropping, companion plants, weed control, soil fertilization)



Date Modified: 2002 03 08

[Important Notices](#)